

REGISTRATION

Registration is possible up to the beginning of the summerschool:
www.processnet.org/summerschool2018

Please note that the number of participants is limited. Confirmation of registration will be sent immediately by mail. The invoice, with payment confirmation, you will receive by post mail within two weeks.

REGISTRATION FEES¹⁾

	Members ²⁾	Others
Industry	€ 550	€ 565
Academia	€ 275	€ 290

1) No VAT requested according to § 4.22 UStG, registration fee may include Business Package with VAT.

2) Personal DECHEMA- and VDI-GVC-members

Editorial deadline for the list of participants is **6 August 2018**. The registration fees include conference ticket, book of abstracts, the list of participants, food and beverages during the conference as well as the get together and the dinner on Tuesday and Wednesday. All documents will be handed out on-site.

CANCELLATION AND REFUNDS

Cancellations are only accepted in writing (i.e. by fax, surface mail or e-mail). Please find details about cancellation dates and fees in the general terms and conditions. In case of no-show the conference fees won't be refunded and fees not yet paid still have to be paid.

VENUE

DECHEMA-Haus
 Theodor-Heuss-Allee 25
 60486 Frankfurt am Main

Detailed information on how to get to DECHEMA can be found at
www.dechema.de/en/anfahrt

ACCOMMODATION

We reserved a contingent of rooms at the following hotel.

Please book yourself using the keyword „Summerschool“ until **16 July 2018**.

Meininger Frankfurt/Main Messe

Europa-Allee 64
 60327 Frankfurt am Main
 E-mail: welcome@meininger-hotels.com

Prices:

Twin-Room incl. breakfast 44,50 per person/night
 3-bed-room incl. breakfast 40,00 per person/night
 4-bed-room incl. breakfast 40,00 per person/night

For further hotels please contact
 Tourismus+Congress GmbH
 Kaiserstraße 56
 60329 Frankfurt am Main
 Phone: +49 69 21230808
 Fax: +49 69 21240512
 E-mail: Info@infofrankfurt.de
 Internet: www.frankfurt-tourismus.de

ORGANISER

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INVITATION AND PROGRAMME

27 – 30 August 2018
 DECHEMA-Haus, Frankfurt am Main

NaWuReT-YounGeCatS Summerschool 2018 Finding the Dream Team: Challenging Reactors with Catalysts

www.processnet.org/summerschool2018



INVITATION

„Finding the Dream Team: Challenging Reactors with Catalysts“

Unleashing the full potential of catalysis is only possible when the ideal combination of reactor and catalyst is found. The 2018 NaWuReT-YounGeCatS Summerschool will provide reaction engineers and catalysis researchers with the necessary insights and tools to work together on these challenges.

Catalysis is one of the most important concepts in chemical industry. Due to the complex interplay of mass and heat transport with the reaction, reaction engineering comes into play when applications are considered. Nowadays, the search for the ideal combination of reactor and catalyst becomes even more challenging, as changes in energy and raw material basis have to be considered.

The 2018 NaWuReT-YounGeCatS Summerschool “Finding the Dream Team: Challenging Reactors with Catalysts” focuses in particular on that issue, and will give basic introductions about catalysis for reaction engineers, and insights into reaction processing for catalyst researchers.

Moreover, the complex development paths for catalytic materials as well as optimization guidelines for advanced processes will be thematised. Besides discussions of basic reaction engineering concepts, advanced topics such as possibilities of digitalization and interaction with downstream processing will be addressed.

The necessity of interdisciplinary work will be shown, and expressed in selected lectures and the interaction provided in the group work sessions. The Summerschool will be highly interactive, giving the participants the possibility to work on their own vision of the ideal combination of a reactor with catalysis.

Which topics will be addressed during the summerschool?

- » Heterogeneous Catalysis, Reaction Engineering
- » Interfaces between Catalysis and Reaction Engineering
- » Downstream Processing, Digitalization, Process Safety/online-Analytics
- » Visit of the Clariant Innovation Center

Who may attend the summerschool?

This Summerschool addresses Ph.D. students and PostDocs of all disciplines as well as participants from industry who are interested in research in catalysis and reaction engineering.

Please note: The number of participants is limited.

PROGRAMME

Monday, 27 August 2018

Until Individual arrival
1:00 p.m. Welcome and Introduction
Stimulating Lecture
Introduction to group work

4:00 p.m. **Interactive session on
“Design Thinking and Generating Innovations”**
J. Gumula, University Göttingen

Group building
Interactive group session

7:00 p.m. **Get Together in DECHEMA Building**

Tuesday, 28 August 2018

9:00 a.m. **LECTURE**
“Interfaces between Catalysis and Reaction Engineering”
H.-W. Zanthoff, Evonik Technology & Infrastructure GmbH, Marl

10:00 a.m. Group work

11:30 a.m. **LECTURE**
“Process Safety/(online-analytics)”
(N.N.)

12:30 a.m. **LUNCH**

1:30 p.m. Group work

3:00 p.m. **LECTURE**
“Downstream processing”
A. Klein, Lonza AG, Visp/CH

4:00 p.m. Group work (4:00 – 6:30 p.m.)

7:30 p.m. **Dinner in a typical Frankfurt Restaurant**

Group work

PROGRAMME

Wednesday, 29 August 2018

9:00 a.m. **LECTURE**
“Digitalization”
M. Bortz, Fraunhofer Institut für Techno- und
Wirtschaftsmathematik, Kaiserslautern

Group work

11:30 a.m. **LECTURE**
“Engineering transport in chemical reactors”
G. D. Wehinger, TU Clausthal

12:30 a.m. **LUNCH**

1:30 p.m. Group work

2:30 p.m. **Transfer to Clariant Innovation Center (CIC)**

3:00 p.m. **LECTURE**
“Catalysis and catalysts”
G. Mestl, Clariant AG, Heufeld

4:00 p.m. **LECTURE**
“Process Technology”
L. Völkl, Clariant AG, Frankfurt

5:00 p.m. **Guided tour through CIC**

Convivial evening

Thursday, 30 August 2018

9:00 a.m. **Presentation of group work
student feedback**

11:00 a.m. **Evaluation and closing remarks**

12:00 a.m. **End of summerschool**

Farewell and individual departure